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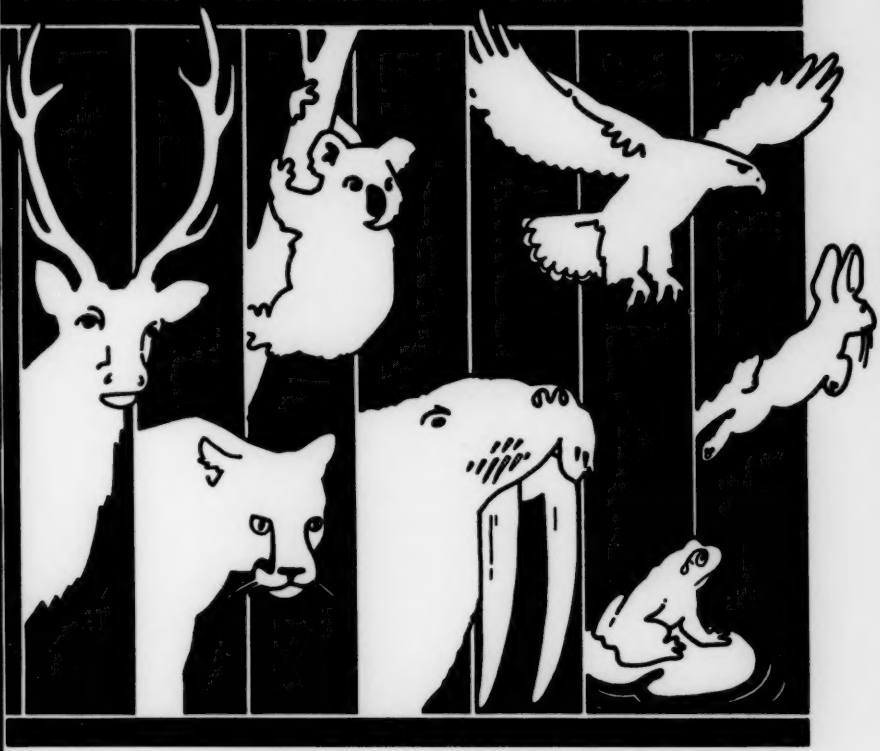

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WILDLIFE REVIEW

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BEAVER, MUSKRAT, AND NUTRIA

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[Dep. For. & Wildl. Manage., Univ. Mass., Amherst 01003] *Megaceryle alcyon, Quiscalus quiscula, Corvus brachyrhynchos, Butorides striatus, Anas platyrhynchos, Ardea herodias,* and *Pandion haliaetus.*

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[Farmland Ecol. Unit, Game Conserv. Trust, Fordingbridge, Hampshire SP6 1EF, England] *Corvus frugilegus, Alauda arvensis,* and *Phasianus colchicus* in England.

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[Dep. Zoopsychol. & Anim. Ethol., Inst. Environ. Biol., Jagiellonian Univ., Karasia 6, 30–060 Krakow, Poland] *Accipiter gentilis* and *Columba palumbus* in Germany.

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[Health Anim. Lab., Agric. Canada, 116 Veterinary Rd., Saskatoon, SK, Canada S7N 0W0] *Struthio camelus.*

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[Dep. Vet. Anat., Univ. Nairobi, P.O. Box 30197, Nairobi, Kenya]

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[Baldwin: Dep. Ecol. & Evol. Biol., Monash Univ., Wellington Rd., Clayton, Vic. 3168, Australia]

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[Cent. Ratite Resour., 15905 S. Meridian, Oklahoma City, OK 73173] *Struthio camelus.*

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[Percy FitzPatrick Inst. African Ornithol., Univ. Cape Town, Rondebosch 7700, South Africa] *Struthio camelus.*

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[Dep. Wildl. & Fish. Biol., Univ. Calif., Davis 95616] *Callipepla californica.*

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[For. & Manage. Res. Inst., Jiloviste-Strnady 156 04 Praha 5 - Zbraslav, Czechoslovakia] *Phasianus colchicus.*

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[Dep. Fish & Game, 868 E. Main St., Jerome, ID 83338] *Centrocercus urophasianus.*

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[Wildbiol. Ges. Munchen, Box 170, D-8103 Oberammergau, Germany] *Tetrao urogallus* in Germany.

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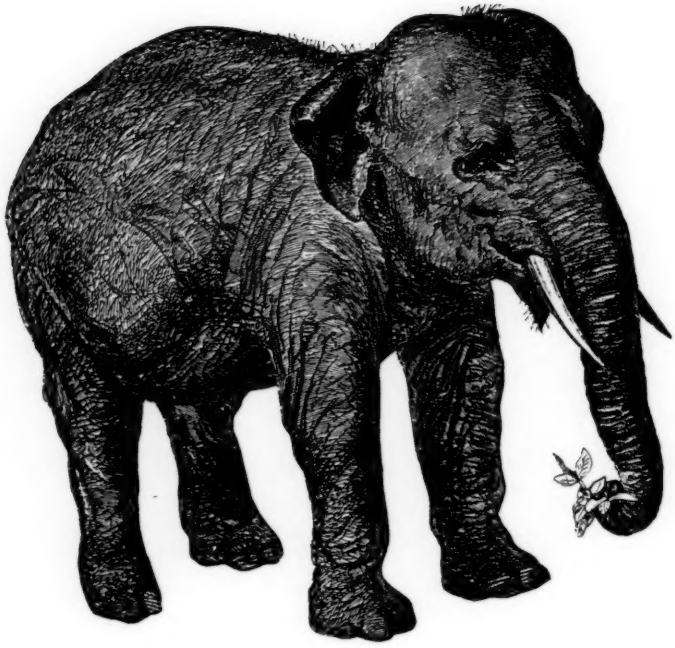

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BOOK REVIEW

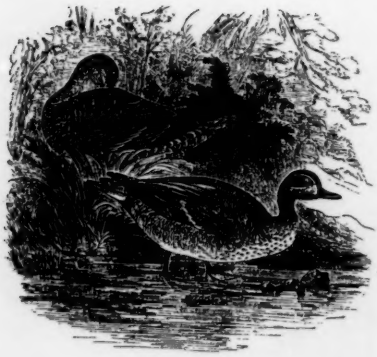
Eleuterius, Lionel N. 1990. *Tidal Marsh Plants.* 160 pp. Pelican Publishing Company, Inc., 1101 Monroe Street, P.O. Box 189, Gretna, LA 70053. Available from the publisher at $24.95 (cloth).

In addition to a preface and an introduction, chapters address the use and the scope of the guide, the general ecology of tidal marshes, and the phenology and taxonomy of tidal marsh plants. Illustrations and descriptions of 200 species of plants of salt marshes are the major portion of the book. Sixty plant families, including 122 genera, are arranged phylogenetically by family and alphabetically by genus. Line drawings of entire plants and parts of plants and descriptions of 3 species of ferns, 1 gymnosperm, 89 monocots, and 107 dicots are featured. Included are 95 color plates, a glossary, and latin-name and common-name indexes.

The book is a comprehensive, easy to use, and useful field guide for professional and lay persons who wish to identify vascular plants in the salt marshes of the Atlantic and Gulf coasts of the United States. However, the size (7.25" × 10.25" × 0.75") is cumbersome because it is too large for a pocket or satchel. I also prefer field guides with covers and pages that can be wiped with a damp cloth and withstand at least light rain.

The author is head of the botany section of the Gulf Coast Research Laboratory in Ocean Springs, Mississippi. He is a member of the American Institute of Biological Sciences and the American Botanical Society and has an extensive record of publications.

—E.D. Rockwell, Office of Information Transfer, U.S. Fish and Wildlife Service, 1201 Oak Ridge Drive, Suite 200, Fort Collins, CO 80525-5589.



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BOOK REVIEW

Buss, Irven O. 1991. *Elephant Life: Fifteen Years of High Population Density.* Iowa State University Press, 2121 S. State Avenue, Ames, IA 50010. 218 pp. Available from the publisher at $49.95 (cloth).

The title of the book suggests that it includes 15 years' study of elephants in a high population environment. Actually, the book contains data from more than 25 years of work by the author and other researchers. It is written in easy-to-read active prose and contains many personal anecdotes that make the book more than simply a recitation of facts. It is liberally illustrated with black and white photographs and line drawings.

The first chapter is an introduction to the subject, a brief narration of the author's first interest in elephants, how he came to research elephants in Africa, the locations he conducted his research, and an introduction of others who had a role in the research that led to his book. The second chapter— on elephant behavior—includes descriptions of mortality, play and fighting, matriarchal organization, and family fidelity. Included are observations of opposite behaviors such as assisting wounded and dying elephants yet fighting with and goring another elephant to death, and tolerating the presence of egrets and oxpickers yet killing crocodiles and a waterbuck that ventured too close.

Other chapters cover physiological structure and function; population, distribution, and migratory and foraging movements; reproduction; elephant life in and effect on forests; and food habits and feeding behavior. The chapters contain data in tables, charts, and graphs, as well as personal observations and anecdotes.

In the final chapter, the author discusses the future of the elephant in the wild. He makes special reference to the Kabalega Falls National Park, where he did much of his field work, but includes references to other parks and reserves throughout Africa. He briefly discusses such things as the effect of poaching on the animal population, the results of overuse of certain areas by elephants, and the effect of farmers and ranchers on the wild animal population in general.

I would recommend this book as a general reference on elephants.—Jerry D. Cox, U.S. Fish and Wildlife Service, Office of Information Transfer, 1201 Oak Ridge Drive, Fort Collins, CO 80525-5589.

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BOOK REVIEW

Nilsen, Richard (editor). 1991. *Helping Nature Heal: An Introduction to Environmental Restoration.* Ten Speed Press, P.O. Box 7123, Berkeley, CA 94707. 160 pp. Available from the publisher at $14.95 (paper).

This book is a collection of essays, articles, and book reviews about environmental restoration. The four divisions of the book are Theory of Environmental Restoration, Environmental Restoration in the USA, Environmental Restoration Around the World, and Practice of Environmental Restoration.

The first section includes a variety of theories about environmental restoration and leads this reviewer to the conclusion that there is not a consensus on the subject. Restorationists espouse diverse ideas such as using only thoroughly tested and modern methods, using methods that mimic the natural process, and leaving the environment alone to let nature take its course.

The second section discusses some of the current projects and methods used in the United States to restore damaged ecosystems. Most of the third section covers the restoration work of David Wingate, working to save one species (the cahow, or Bermuda petrel) from near extinction and in the process restoring the ecosystem of an entire island. Also in the third section are reports of successes in restoration and continuing efforts to restore damaged or destroyed ecosystems. The fourth section of the book could be called the "how-to" section, telling how to go about a restoration project and how to teach others, especially children, the principles of ecosystem restoration.

The book reflects some of the diverse biases in the field. For example, one essay includes the phrase "post-industrial wage slaves," while another states that "environmentalists have become blind, if not antagonistic, to the alternatives that would restore our cities." The following description from the book suggests the difference between an ecologist and an environmentalist, at least from the editor's point of view:

Ecology connotes study—generally of ecosystems.

Environmentalism connotes advocacy—also of ecosystems.

This book is a reflection of some of the current thinking in the field of environmental restoration and can give the reader access to different ideas and literature on the subject.— Jerry D. Cox, U.S. Fish and Wildlife Service, Office of Information Transfer, 1201 Oak Ridge Drive, Fort Collins, CO 80525-5589.

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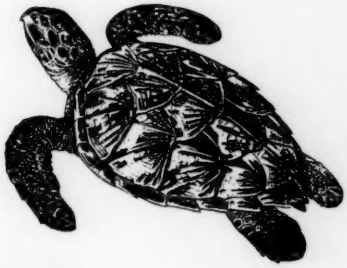

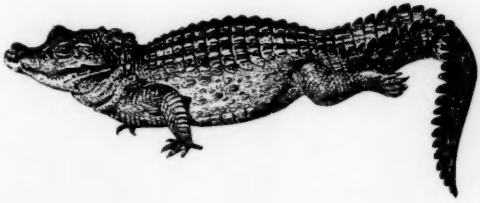

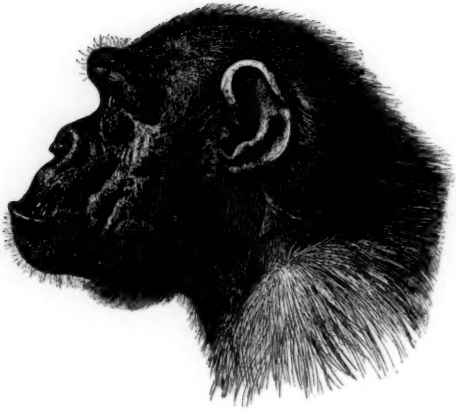

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